## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPI	LICANT:	Orwar, et al.									
U.S.	S.N.:	Not Yet Assigned	Art Unit: Not Yet Assigned								
FILE	D:	Herewith	Examiner: Not Yet Assigned								
FOR	:	SYSTEM AND METHOD FOR OBT RESISTANCE SEALS IN PATCH C	AINING AND MAINTAINING HIGH- LAMP RECORDINGS								
Com P.O.	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450										
INFORMATION DISCLOSURE STATEMENT											
Sir/I	Madam										
		CERTIFICATE OF	MAILING								
I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Label No. EV 343731527 US and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, Va 22313-1450 on August 20, 2003.  By:     By:											
	D	m4 to 27 O.E.D. SS 1.07 and 1.09 an	unlicont(s) hombre sylvatics) on								
Infor		nt to 37 C.F.R. §§ 1.97 and 1.98, apsclosure Statement for consideration									
I.	LIST OF	PATENTS, PUBLICATIONS OR OTH	ER INFORMATION								
Offic		ents, publications or other information on PTO-1449, attached hereto.	on submitted for consideration by the								
II.	COPIES										
	a. <b>X</b>	(ii) each publication or that por	copy of (i) each U.S and foreign patent; rtion which caused it to be listed; and (iii) ortion which caused it to be listed.								
	b	Each of the patents, publicatio	ns or other information listed on the								

attached PTO-1449 was previously cited by or submitted to the USPTO in connection with U.S.S.N.: \_\_\_\_\_\_\_, to which the subject

Applicant: Orwar, et al.

Attorney Docket No. 58072 (47137)

application claims the benefit of the earlier filing date. As such, a copy of each is not included herewith pursuant to 37 C.F.R. § 1.98(d).

## CONCISE EXPLANATION OF THE RELEVANCE III.

(check at least one box)

	(CIICCK	at least one box
a. <b>X</b>		Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
b	(	A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows (following also previously cited by or submitted to the USPTO in connection with U.S.S.N.:
		English translation (partial) for reference  English abstract for reference  English translation of search report/ official communication.  Copy of PCT/EPO Search Report.
c	_	The following additional information is provided for the Examiner's consideration:
	Cor	by of EPO Search Report.  by of PCT Search Report.  by of Official Communication from the Patent Office.  glish translation of search report/ official communication.
		<u>FEES</u>
		BEING FILED UNDER 37 C.F.R. § 1.97(b)
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## IV. (check one box)

- within three months of the filing date of a national application (37 a. **X** C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. \_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- before the mailing date of a first Action on the merits (37 C.F.R. § c. \_\_\_ 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e)below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c): (check one box) before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)). No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. . § 1.17(p). b. See the certification below. No fee is required. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box) VI. The undersigned hereby certifies that each item of information contained in the IDS was cited in a a. \_\_ communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or b. \_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. Some of the items of information were cited in a communication from a c. \_\_ foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. VII. FEE PAYMENT (check one) Enclosed please find a check in the amount of \$180.00 for the above-indicated fee. Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee.

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## **X** No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,

Date: August 20, 2003

Dianne M. Rees, Ph.D. (Reg. No. 45,281)

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INFORMATION DISCLOSURE STATEMENT					58072 (47137)			Not y t assigned			
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INITIALS		NUMBER		DATE	c	NAME		CLASS	SUBCLASS	IF APPROPRIATE	
	A1	US2003/00222	58A1	1/30/20	003	Lepple-Wienhues	Visch et al. 204		29 450 547		
	A2	US2002/00742	27A1	6/20/20	002	Nisch et al.					
	А3	US2003/00091	12A1	1/9/20	03	Hammerle et al.					
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	O'	THER DOCUME	NTS (	INCLUDI	NG A	AUTHOR, TITLE, DA	TE, I	PERTIN	ENT PAGES,	ETC.)	
	C1	1				Code Reader for High- 2002, 74, 6133-6138		ughput	Screening of	Ion Channel-	
	C2	, ,				annel Receptor Agonis d Detector Cells", Ana					
	СЗ	C3 Stromberg, et al., "Microfluidic Device for Combinatorial Fusion of Liposomes and Cells", An Chem. 2001, 73, 126-130.								d Cells", Anal	
	C4	Jardemark, et al., "Screening of Receptor Antagonists Using Agonist-Activated Patch Clamp Detection in Chemical Separations", Anal. Chem. 1998, 70, 2468-2474.								atch Clamp	
	C5	Fishman, et al., "Cell-to-Cell Scanning in Capillary Electrophoresis", Analytical Chemistry, Vol. 68, No. 7, April 1, 1996, 1181-1186.									
	<ul> <li>C6 Fishman, et al., "Identification of receptor ligands and receptor subtypes using antagonists in a capillary electrophoresis single-cell biosensor separation system", Proc. Natl. Acad. Sci. USA, V 92, pp. 7877-7881, August 1995.</li> <li>C7 Klemic, et al., "Micromolded PDMS planar electrode allows patch clamp electrical recordings frocells", Biosensors and Bioelectronics 17 (2002) 597-604.</li> </ul>										
									l recordings from		
	C8	Fertig, et al., "Whole Cell Patch Clamp Recording Performed on Plana Glass Chip", Biophysical Journal, Volume 82, June 2002, 3056-3062.								", Biophysical	
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INITIALS		NUMBER		DATE		NAME		CLASS	SUBCLASS	IF APPROPRIATE		
	A4	5,137,817	5,137,817 8/		992	Busta et al.	435		173			
	A5	5,501,662		3/26/1	996	Hofmann		604	20			
	A6	5,597,699 1/28/1		1/28/1	997	Lanzara		435	7.21			
FOREIGN PATENT DOCUMENTS												
		DOCUMENT								TRANSLATION		
		NUMBER DATE		ATE	COUNTRY			LASS	SUBCLASS	YES/NO		
	В1	WO 90/04645 03/05/1990		5/1990	PCT					Yes		
	B2	WO 94/20841 15/09/		9/1994 PCT						Yes		
	В3	WO 96/10170	04/0	4/1996	РСТ					Yes		
	B4	WO 97/05922	20/0	2/1997	PCT					Abstract		
	В5	WO 99/24110	20/0	5/1999	PCT					Yes		
	TO	HER DOCUME	NTS (I	INCLUD	ING	AUTHOR, TITLE, DA	ΓE,	PERTIN	ENT PAGES,	ETC.)		
C10 Hamill, et al., "Improved Patch-Clamp Techniques for High-Resolution Current Recording from Cells and Cell-Free Membrane Patches", Pflugers Archiv (1981) 391:85, pp. 100-104.												
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	A7	US 2001/002	9320	10/11	/2001	Trumbull et	al.	600	300			
	A8	US 2002/007	6/20/2002		Farb et al.		435	4				
	A9	5,449,492	9/12/	/1995	Krishtal		422 600 700	64 33 56				
	A10	6,193,647	2/27/	/2001	Beebe et al.							
	A11	US 2202/0146822		10/22	/2002	Olesen et al.						
	A12			10/10	/2002	Takayama et al. Ransom et al.		435	375 29			
	A13			6/5/	2001			435				
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